

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P282178

Luminaire Tested: **LDA2B059050D010 EU2B05NFL259050 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B059050D010 EU2B05NFL259050 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC
AND 2in Adj SQ PinHole, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 635.1 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

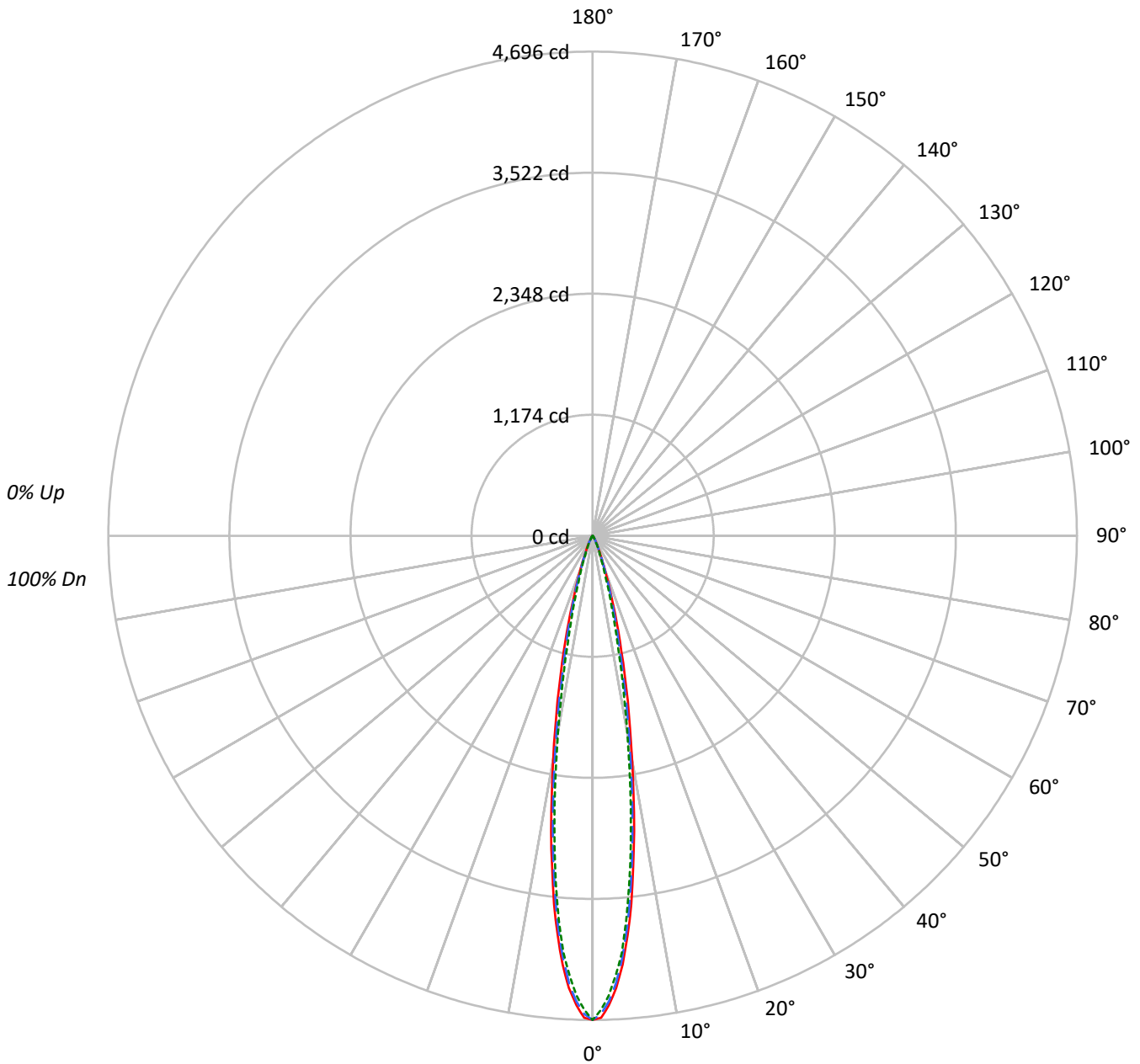
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																			
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95																			
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92																			
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90																			
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88																			
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86																			
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84																			
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83																			
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81																			
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2316975	2316975	2316975
5°	1927994	1892633	1854450
10°	1104344	1036312	967178
15°	491203	436245	365555
20°	178193	167535	132726
25°	68427	63908	55035
30°	29510	27459	24326
35°	13973	13973	11564
40°	7020	7213	5861
45°	4047	3768	3558
50°	2763	2533	2533
55°	2150	1548	1892
60°	1776	1085	1381
65°	1284	817	1284
70°	1010	577	1010
75°	762	762	762
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.4	48.1
10°-20°	247.2	38.9
20°-30°	59.6	9.4
30°-40°	15.2	2.4
40°-50°	4.5	0.7
50°-60°	1.9	0.3
60°-70°	0.9	0.1
70°-80°	0.3	0.1
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	612.2	96.4
0°-40°	627.4	98.8
0°-60°	633.9	99.8
0°-90°	635.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	635.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4696	4696	4696	4696	4696	
5°	3893	3857	3822	3788	3744	315
15°	962	939	854	769	716	274
25°	126	126	117	106	101	65
35°	23	24	23	21	19	16
45°	6	6	5	5	5	5
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4696.3	4696.3	4696.3	4696.3	4696.3
1°	4675.3	4642.7	4638.8	4659.0	4599.3
2°	4555.8	4532.6	4519.2	4531.2	4463.5
3°	4391.7	4369.3	4345.0	4345.4	4269.7
4°	4168.3	4150.5	4109.6	4097.3	4053.4
5°	3893.0	3857.1	3821.6	3788.3	3744.5
6°	3588.7	3542.4	3491.7	3442.0	3397.1
7°	3230.9	3200.1	3133.1	3065.3	3027.3
8°	2894.4	2844.8	2766.5	2681.8	2649.5
9°	2532.5	2497.0	2407.2	2308.7	2276.5
10°	2204.4	2167.4	2068.6	1958.8	1930.6
11°	1896.5	1861.7	1758.9	1643.7	1613.6
12°	1636.1	1586.8	1468.7	1368.8	1339.4
13°	1376.7	1343.1	1231.1	1132.3	1075.4
14°	1156.2	1128.3	1026.9	939.9	879.8
15°	961.7	938.8	854.1	769.3	715.7
16°	788.9	774.8	707.7	625.9	582.1
17°	640.0	627.0	584.2	508.9	472.0
18°	516.9	515.1	479.6	414.4	381.4
19°	425.2	424.5	391.9	337.2	310.0
20°	339.4	344.1	319.1	271.3	252.8
21°	276.7	279.3	259.3	223.1	206.5
22°	225.3	227.1	214.1	184.4	175.3
23°	184.7	185.8	174.9	152.9	144.9
24°	152.1	152.9	143.1	127.5	120.6
25°	125.7	126.4	117.4	106.5	101.1
26°	104.3	105.0	97.1	89.5	84.0
27°	86.6	88.0	80.0	75.3	69.5
28°	73.9	74.3	67.0	64.1	58.7
29°	60.5	62.7	56.5	54.0	50.0
30°	51.8	52.9	48.2	46.4	42.7
32.5°	34.4	35.1	33.0	31.5	28.6
35°	23.2	23.5	23.2	21.0	19.2
37.5°	15.9	15.9	16.3	13.8	13.0
40°	10.9	10.9	11.2	9.4	9.1
42.5°	8.0	8.0	7.6	6.5	6.5
45°	5.8	5.8	5.4	5.1	5.1
47.5°	4.7	4.3	4.0	4.0	4.0
50°	3.6	3.6	3.3	2.9	3.3
52.5°	2.9	2.9	2.5	2.5	2.5
55°	2.5	2.2	1.8	1.8	2.2
57.5°	1.8	1.8	1.4	1.4	1.8
60°	1.8	1.4	1.1	1.4	1.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.1	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.4	0.4	0.7
72.5°	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4
77.5°	0.4	0.4	0.0	0.0	0.4
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







62.5°	1.4	1.1	1.1	1.1	1.1
65°	1.1	1.1	0.7	0.7	1.1



(END OF REPORT)